

HIV Care Continuum for the United States and Puerto Rico

National Center for HIV/AIDS, Viral Hepatitis, STD & TB Prevention
Division of HIV/AIDS Prevention



National HIV Care Continuum

- ❑ **Used to gauge progress towards national HIV prevention and care goals and direct resources most effectively**
- ❑ **Monitors steps required from the time a person is diagnosed with HIV to achieve viral suppression:**
 - Diagnosed with HIV infection
 - Linked to care
 - Engaged or retained in care
 - Prescribed antiretroviral therapy
 - Virally suppressed
- ❑ **Two ways to monitor**
 - Prevalence-based
 - Describes the number of people at each step (except linkage to care) of the continuum as a percentage of the total number of people living with HIV (diagnosed or undiagnosed)
 - Diagnosis-based
 - Describes the number of people at each step (except linkage to care) of the continuum as a percentage of people already diagnosed with HIV

Prevalence-Based Continuum

❑ Denominator:

- National HIV Surveillance System
 - Persons aged ≥ 13 years with diagnosed or undiagnosed HIV infection in the United States
 - Estimates derived using extended back-calculation
 - Persons with HIV infection at the end of the specified year (2009, 2010, 2011)

❑ Numerators:

- National HIV Surveillance System
 - Persons with diagnosed HIV infection in the United States; calculated as a part of overall prevalence estimate for specified year
- Medical Monitoring Project
 - Persons aged ≥ 18 years with diagnosed HIV infection in the United States and Puerto Rico
 - Received HIV medical care - Care visit during April through January of data collection year (2009, 2010, 2011)
 - Prescribed antiretroviral therapy - Documentation of antiretroviral prescription in the medical record
 - Viral Suppression – Most recent viral load test result in the preceding year was undetectable or <200 copies/mL

Diagnosis-Based Continuum

❑ Denominator:

- National HIV Surveillance System
 - Persons aged ≥ 18 years with diagnosed HIV infection in the United States and Puerto Rico
 - Persons with diagnosed HIV infection by the end of the year preceding the specified year (2008, 2009, 2010) and alive at the end of the specified year (2009, 2010, 2011)

❑ Numerators:

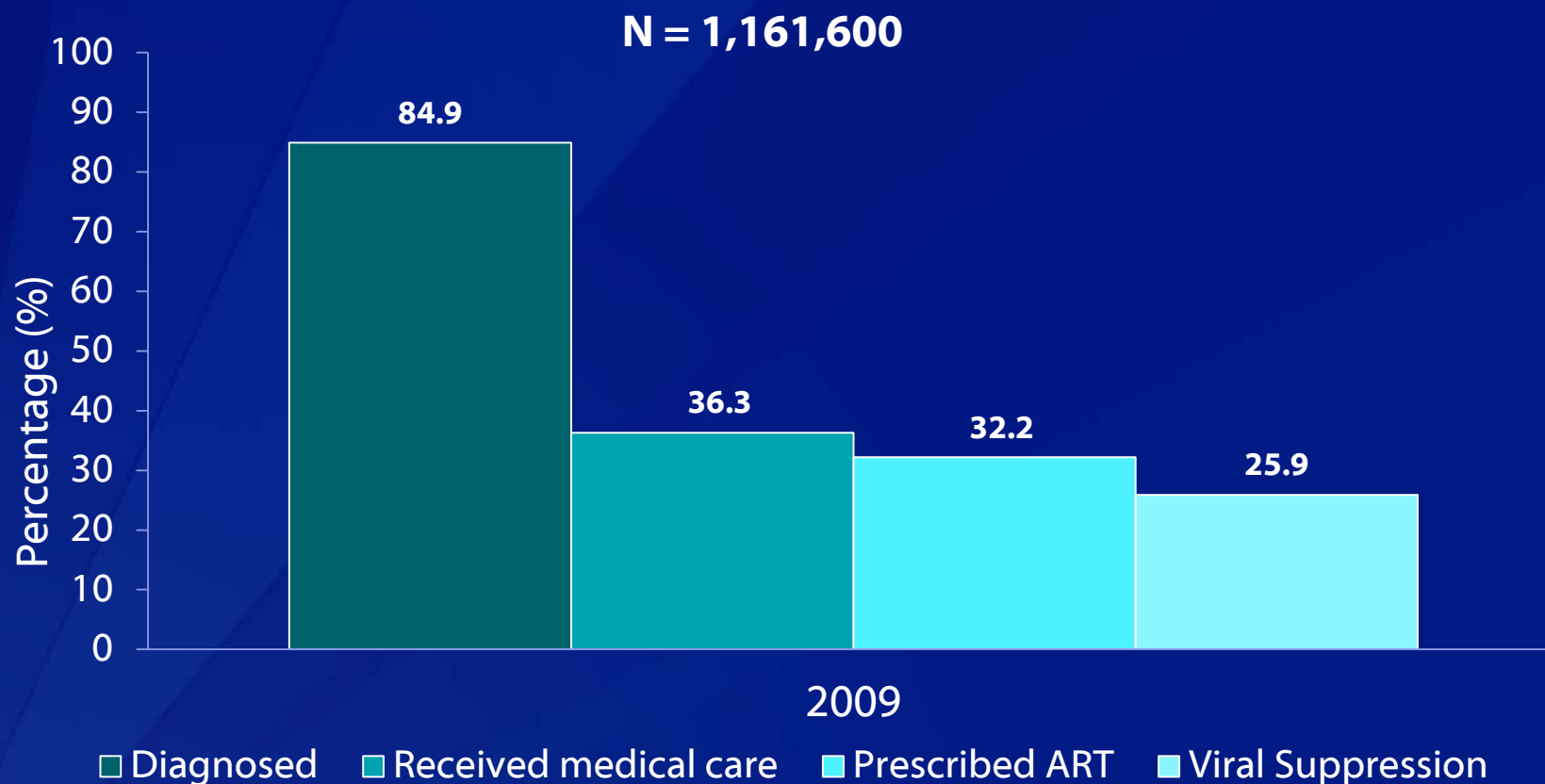
- Medical Monitoring Project
 - Persons aged ≥ 18 years with diagnosed HIV infection in the United States and Puerto Rico
 - Received HIV medical care - Care visit during April through January of data collection year
 - Prescribed antiretroviral therapy - Documentation of antiretroviral prescription in the medical record
 - Viral Suppression – Most recent viral load test result in preceding year was undetectable or <200 copies/mL

Linkage to Care among Persons with Diagnosed HIV Infection

- ❑ Calculated using data from the National HIV Surveillance System**
- ❑ Based on data from HIV reporting jurisdictions with complete laboratory reporting**
- ❑ Measure is limited to people diagnosed only during a single year and cannot be directly compared to other steps in the continuum**
- ❑ Denominator:**
 - ❑ Persons aged ≥ 13 years who were diagnosed with HIV infection during a specified year**
- ❑ Numerator:**
 - ❑ Persons aged ≥ 13 years who were diagnosed with HIV infection during a specified year and who had one or more documented viral load or CD4 tests within 90 days of HIV diagnosis**

Persons Living with Diagnosed or Undiagnosed HIV Infection

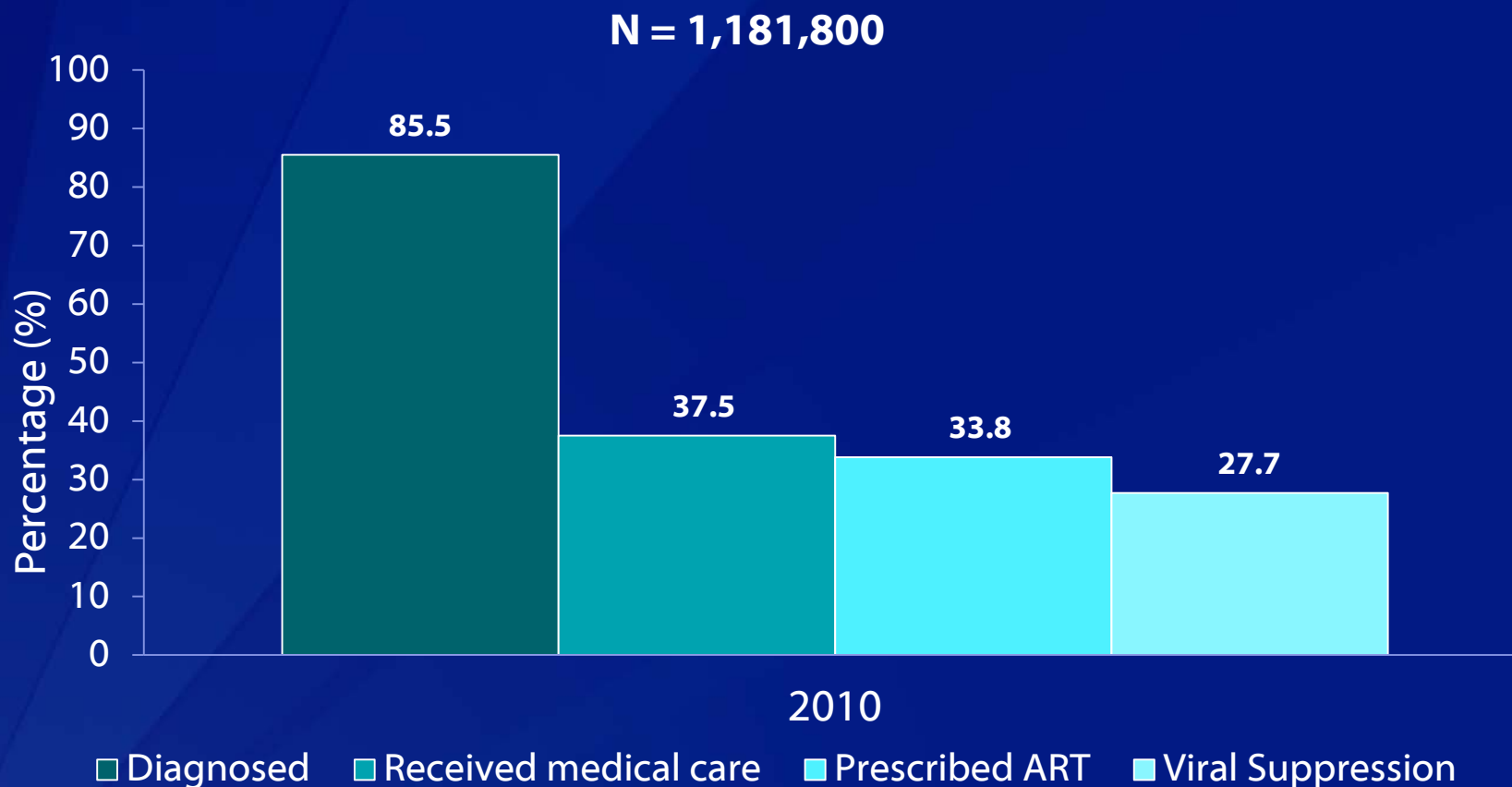
HIV Care Continuum Outcomes, 2009—United States and Puerto Rico



National HIV Surveillance System: Estimated number of persons aged ≥ 13 years living with diagnosed or undiagnosed HIV infection (prevalence) in the United States at the end of the specified year. The estimated number of persons with diagnosed HIV infection was calculated as part of the overall prevalence estimate.

Medical Monitoring Project: Estimated number of persons aged ≥ 18 years who received HIV medical care during January to April of the specified year, were prescribed ART, or whose most recent VL in the previous year was undetectable or <200 copies/mL—United States and Puerto Rico.

Persons Living with Diagnosed or Undiagnosed HIV Infection HIV Care Continuum Outcomes, 2010—United States and Puerto Rico



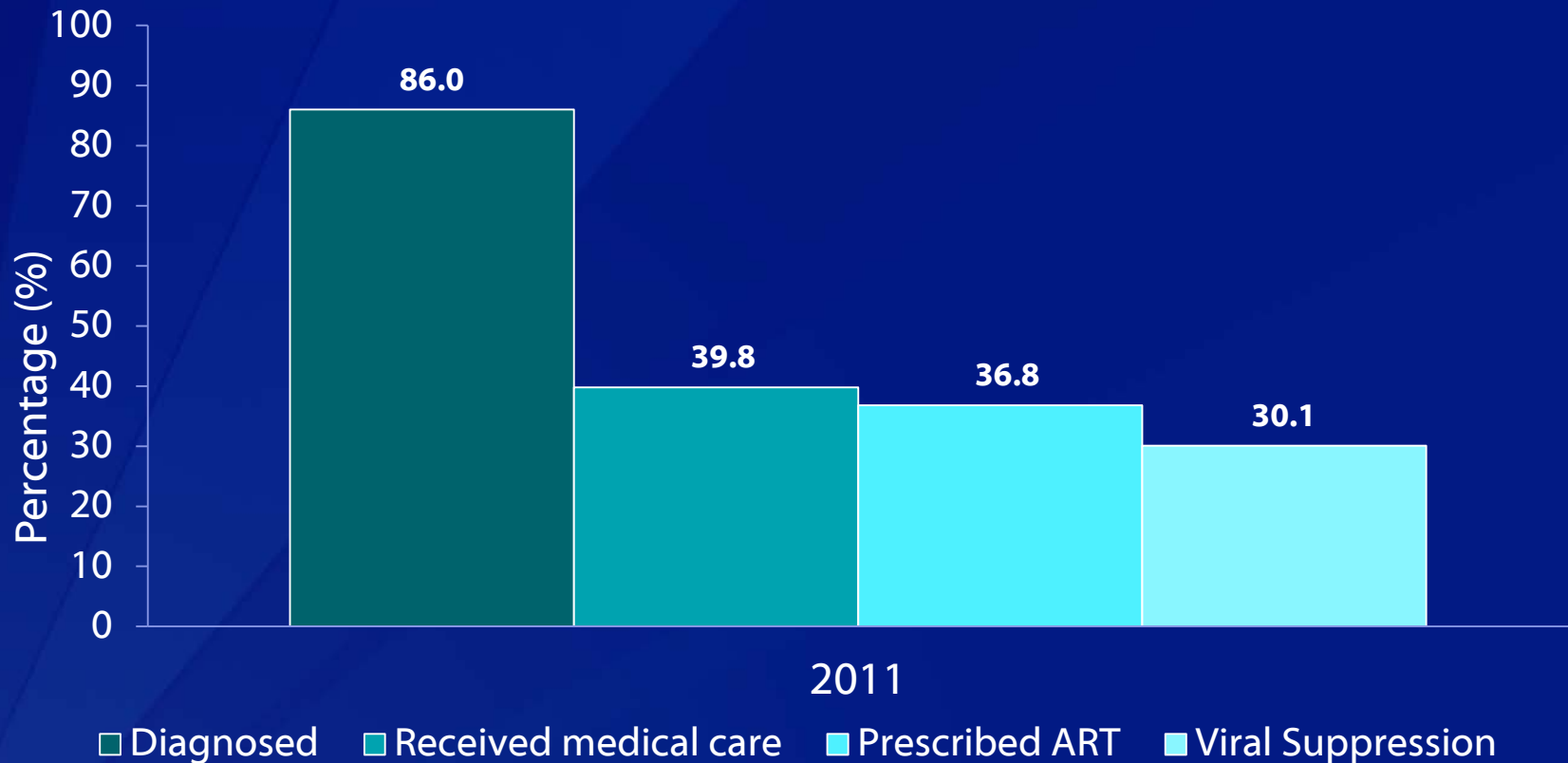
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Persons Living with Diagnosed or Undiagnosed HIV Infection

HIV Care Continuum Outcomes, 2011—United States and Puerto Rico

N = 1,201,100



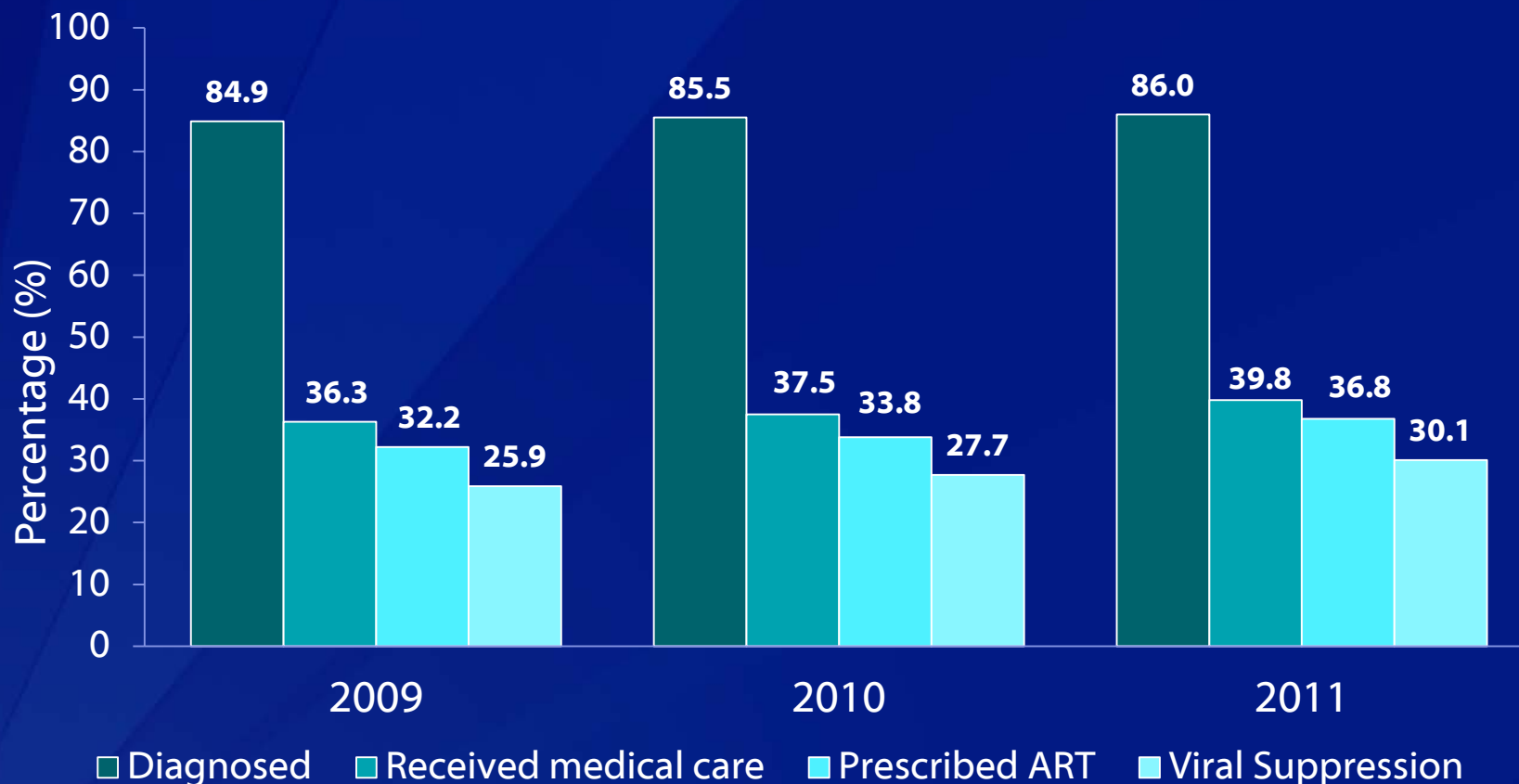
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Persons Living with Diagnosed or Undiagnosed HIV Infection

HIV Care Continuum Outcomes, 2009, 2010 and 2011

United States and Puerto Rico

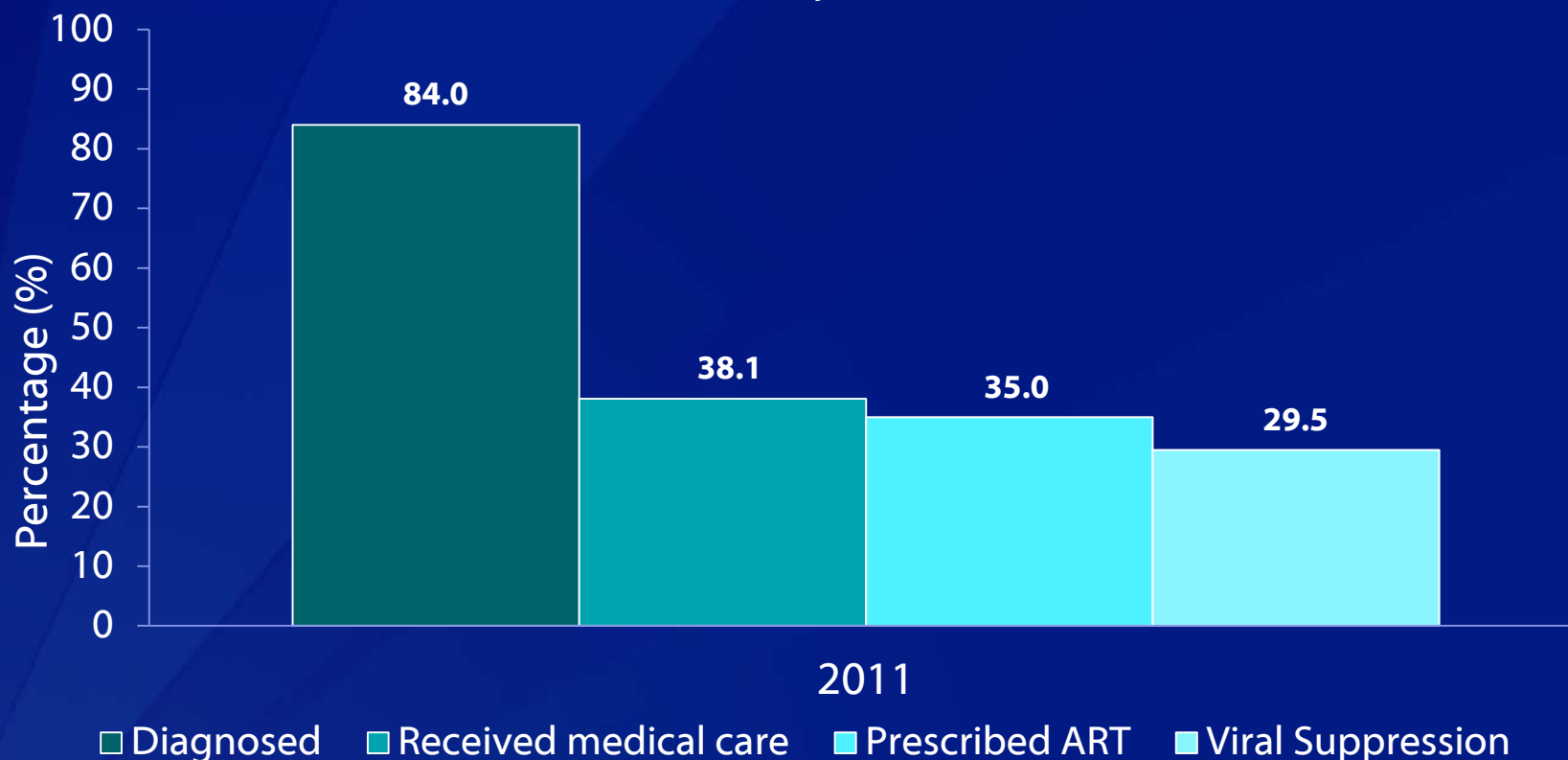


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Men Living with Diagnosed or Undiagnosed HIV Infection Attributed to Male-to-Male Sexual Contact, HIV Care Continuum Outcomes, 2011 United States and Puerto Rico

N = 647,700

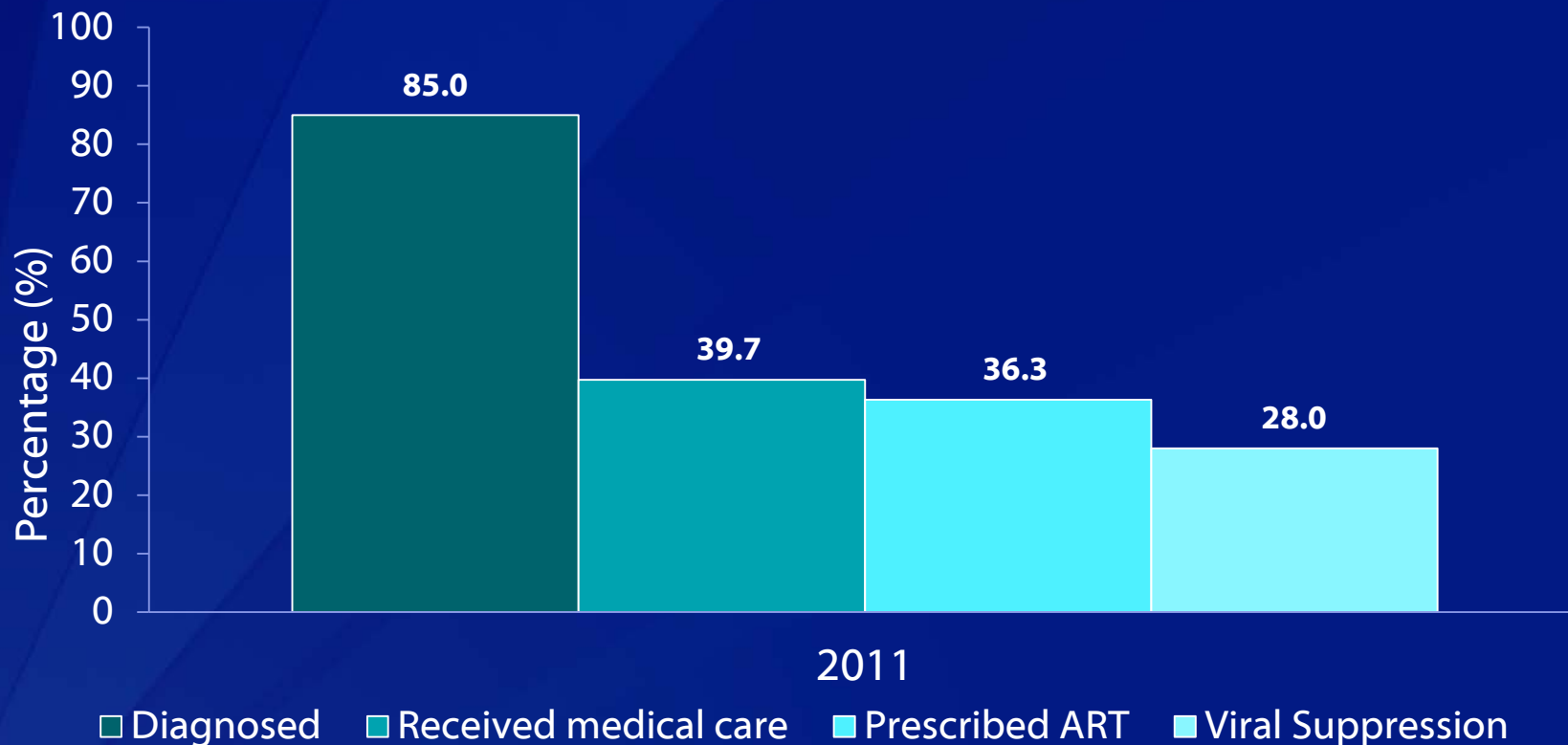


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Medical Monitoring Project: Estimated number of persons aged ≥ 18 years who received HIV medical care during January to April of the specified year, were prescribed ART, or whose most recent VL in the previous year was undetectable or <200 copies/mL—United States and Puerto Rico.

Black/African American Adults and Adolescents Living with Diagnosed or Undiagnosed HIV Infection, HIV Care Continuum Outcomes, 2011 United States and Puerto Rico

N = 491,100

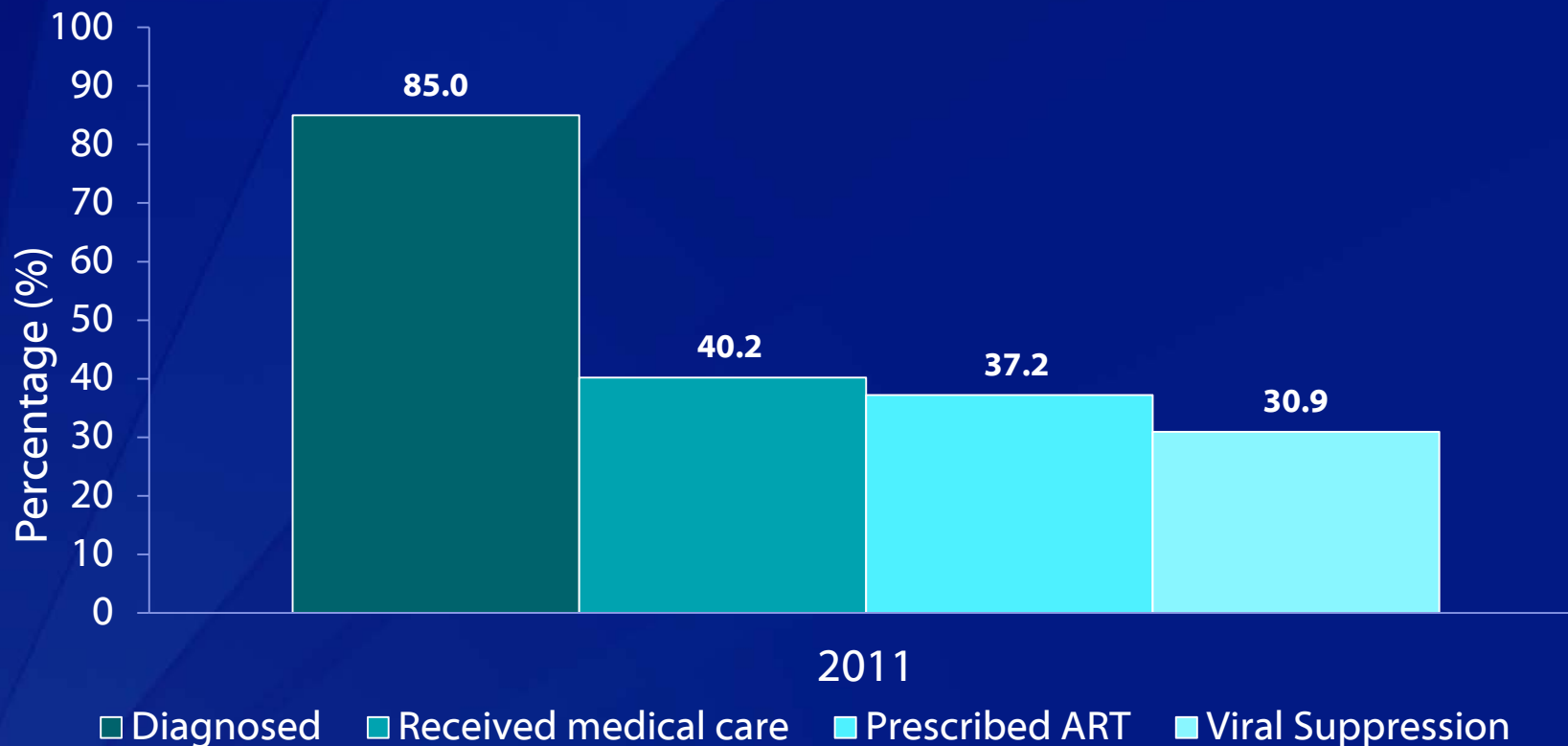


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Medical Monitoring Project: Estimated number of persons aged ≥ 18 years who received HIV medical care during January to April of the specified year, were prescribed ART, or whose most recent VL in the previous year was undetectable or <200 copies/mL—United States and Puerto Rico.

Hispanic/Latino Adults and Adolescents Living with Diagnosed or Undiagnosed HIV Infection, HIV Care Continuum Outcomes, 2011 United States and Puerto Rico

N = 242,000



National HIV Surveillance System: Estimated number of persons aged ≥ 13 years living with diagnosed or undiagnosed HIV infection (prevalence) in the United States at the end of the specified year. The estimated number of persons with diagnosed HIV infection was calculated as part of the overall prevalence estimate.

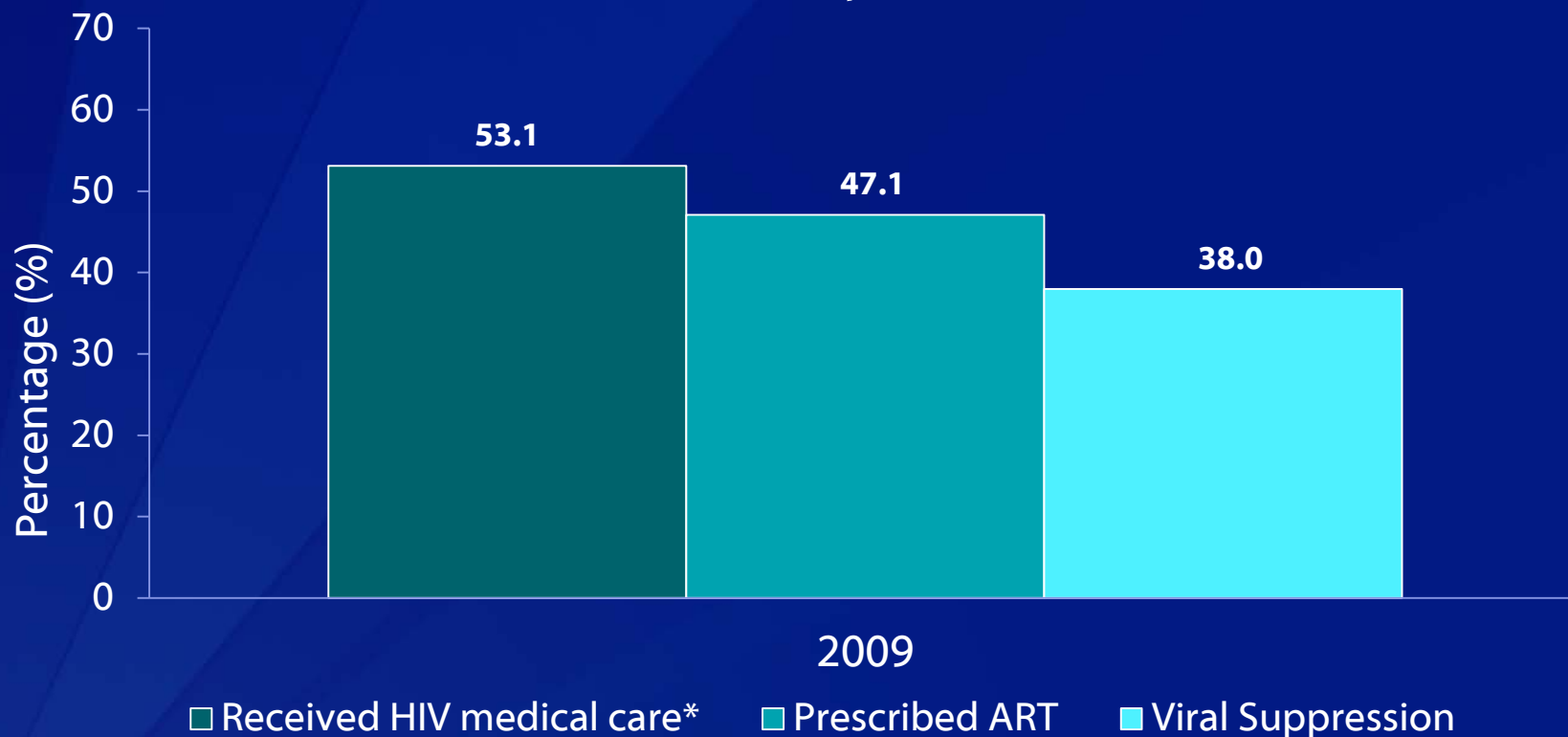
Medical Monitoring Project: Estimated number of persons aged ≥ 18 years who received HIV medical care during January to April of the specified year, were prescribed ART, or whose most recent VL in the previous year was undetectable or < 200 copies/mL—United States and Puerto Rico.

Persons Living with Diagnosed HIV Infection

HIV Care Continuum Outcomes, 2009

United States and Puerto Rico

N = 792,794

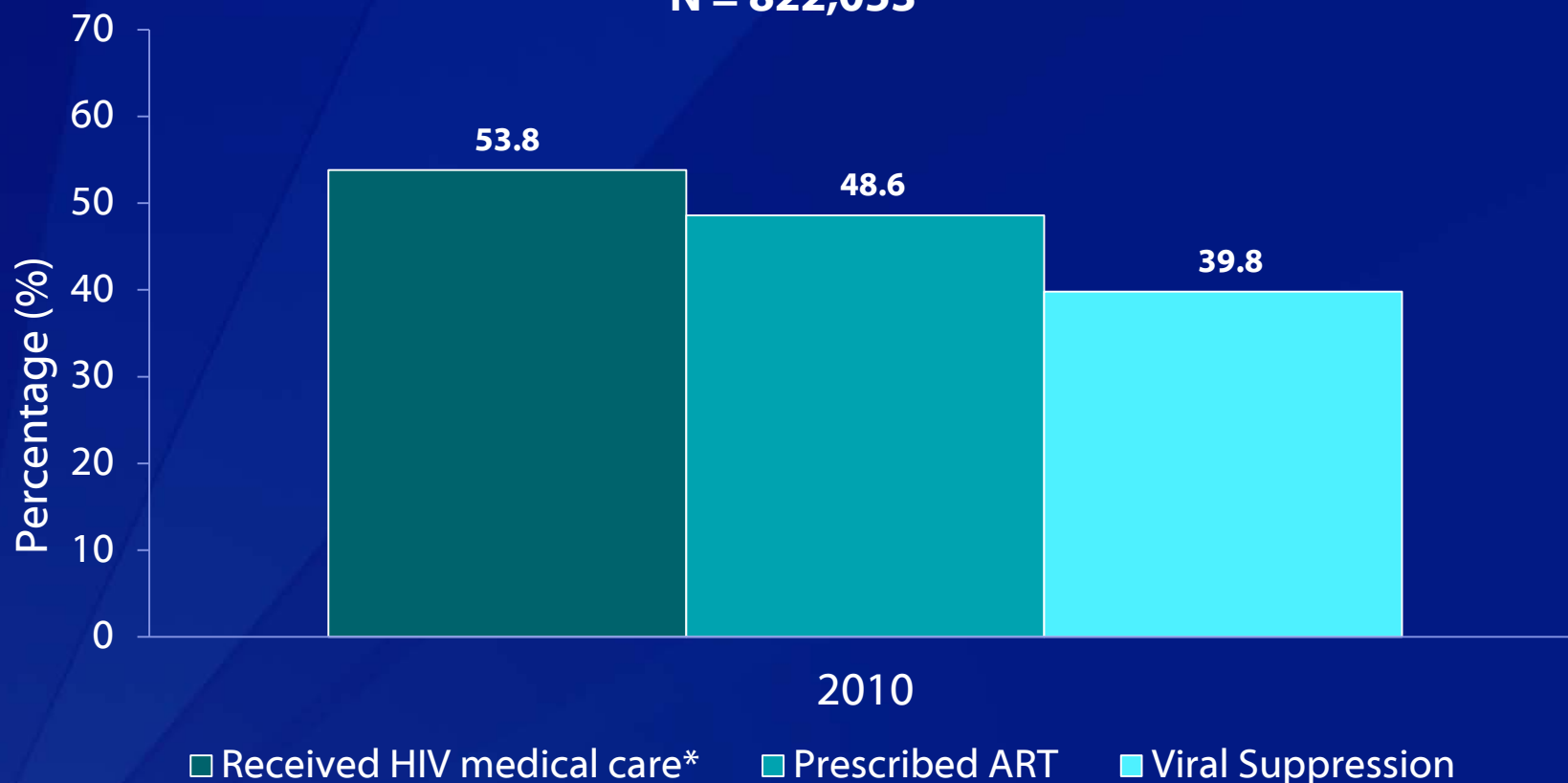


National HIV Surveillance System: Estimated number of persons aged ≥ 18 years diagnosed with HIV infection by year-end 2008 and alive at year-end 2009—United States and Puerto Rico.

Medical Monitoring Project: Estimated number of persons aged ≥ 18 years who received medical care January to April of 2009, were prescribed antiretroviral therapy, or whose most recent VL was undetectable or < 200 copies/mL—United States and Puerto Rico.

Persons Living with Diagnosed HIV Infection HIV Care Continuum Outcomes, 2010 United States and Puerto Rico

N = 822,053



National HIV Surveillance System: Estimated number of persons aged ≥ 18 years diagnosed with HIV infection by year-end 2009 and alive at year-end 2010—United States and Puerto Rico.

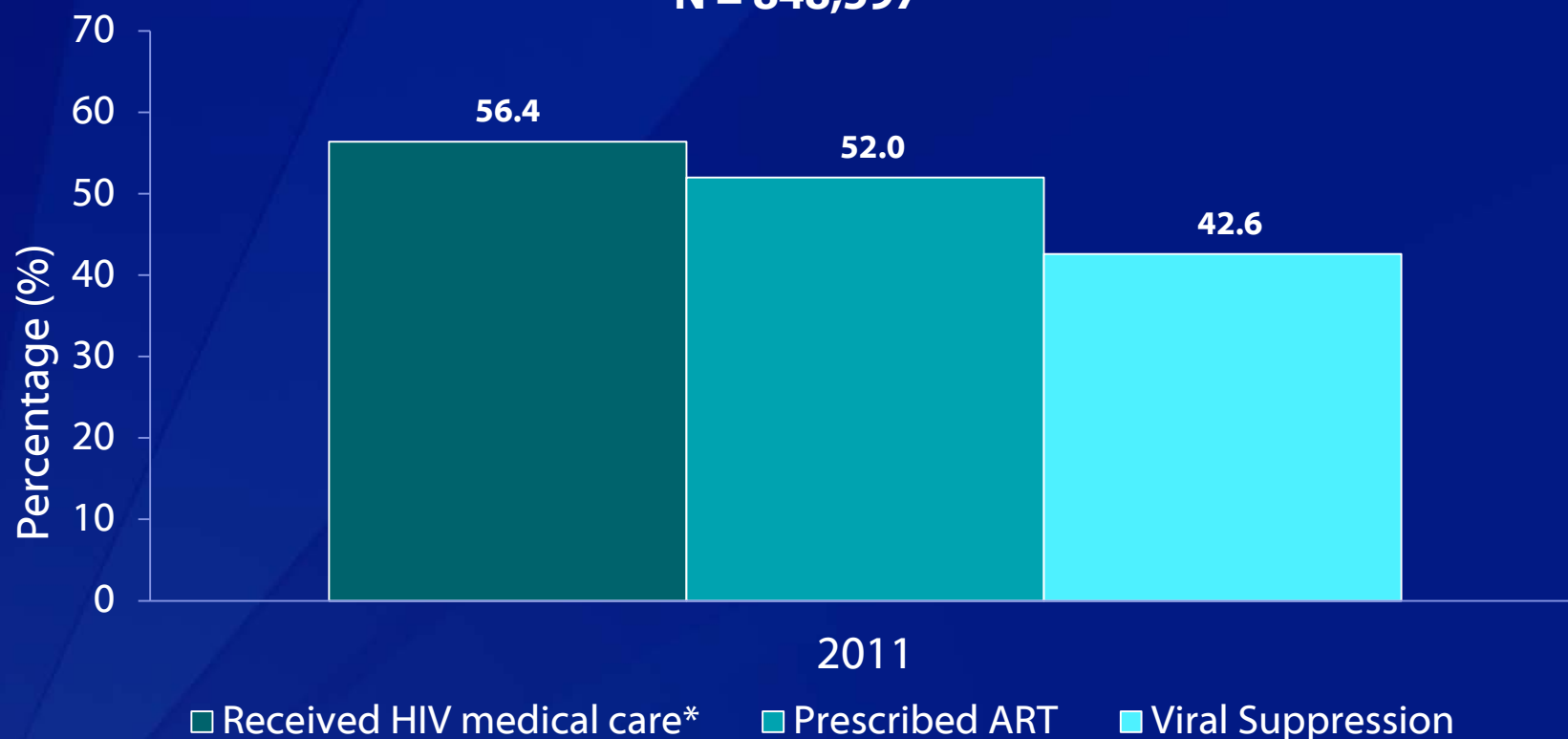
Medical Monitoring Project: Estimated number of persons aged ≥ 18 years who received medical care January to April of 2010, were prescribed antiretroviral therapy, or whose most recent VL was undetectable or < 200 copies/mL—United States and Puerto Rico.

Persons Living with Diagnosed HIV Infection

HIV Care Continuum Outcomes, 2011

United States and Puerto Rico

N = 848,597



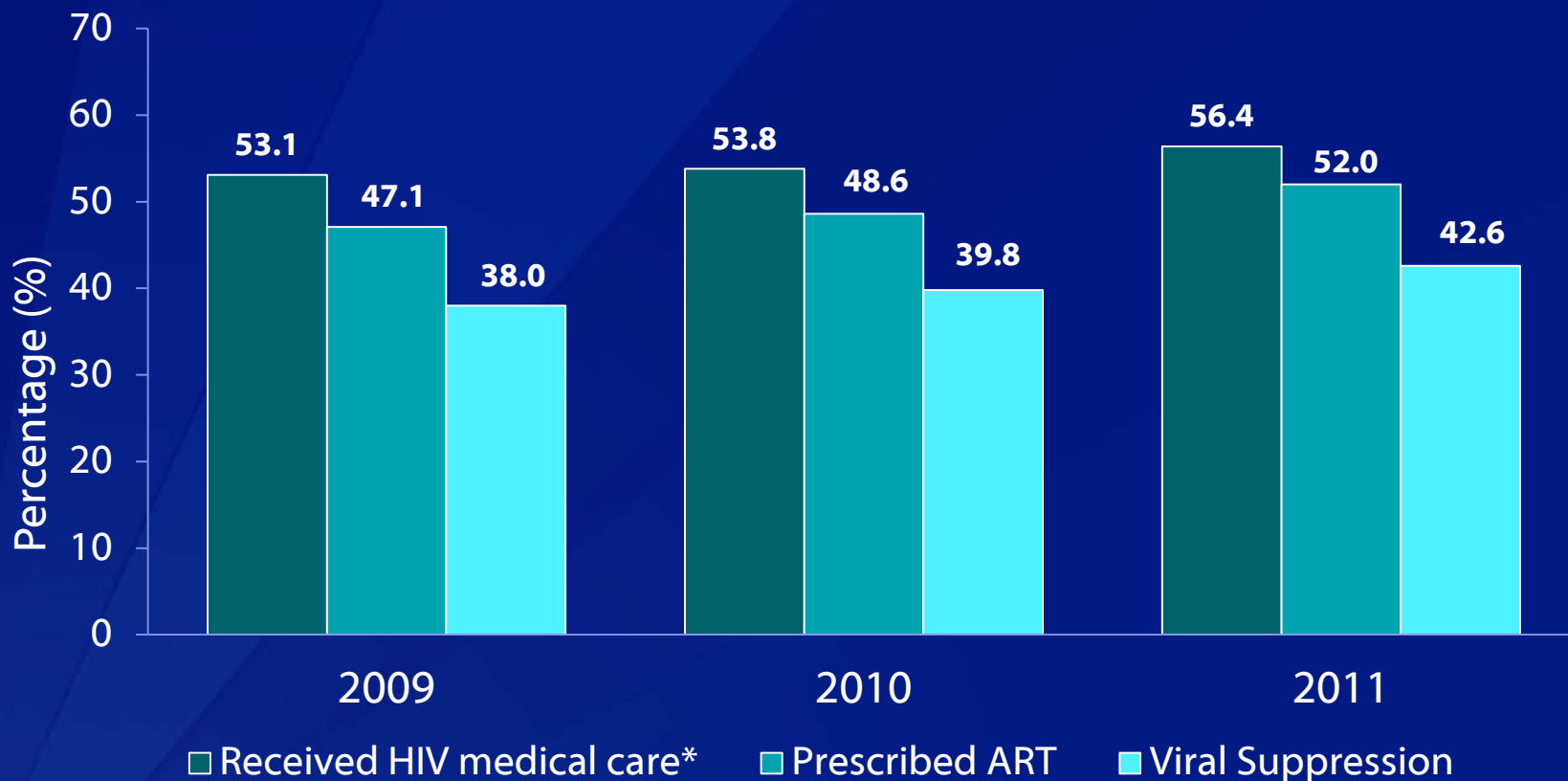
National HIV Surveillance System: Estimated number of persons aged ≥ 18 years diagnosed with HIV infection by year-end 2010 and alive at year-end 2011—United States and Puerto Rico.

Medical Monitoring Project: Estimated number of persons aged ≥ 18 years who received medical care January to April of 2011, were prescribed antiretroviral therapy, or whose most recent VL was undetectable or <200 copies/mL—United States and Puerto Rico.

Persons Living with Diagnosed HIV Infection

HIV Care Continuum Outcomes, 2009, 2010 and 2011

United States and Puerto Rico

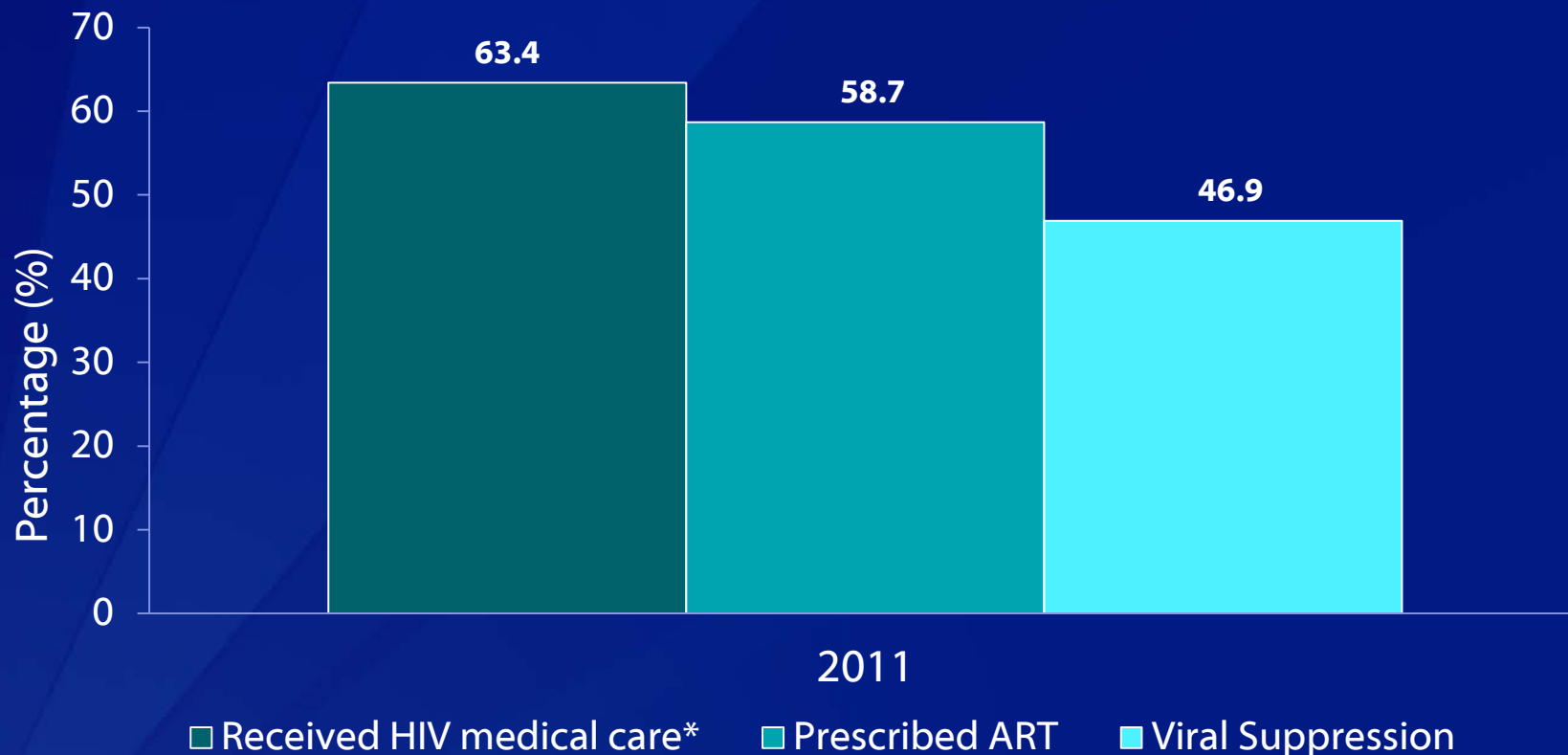


National HIV Surveillance System: Estimated number of persons aged ≥ 18 years diagnosed with HIV infection by the end of the year preceding the specified year (2008, 2009, 2010) and alive at the end of the specified year (2009, 2010, 2011)—United States and Puerto Rico.

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Men Living with Diagnosed HIV Infection Attributed to Male-to-Male Sexual Contact, HIV Care Continuum Outcomes, 2011 United States and Puerto Rico

N = 428,869

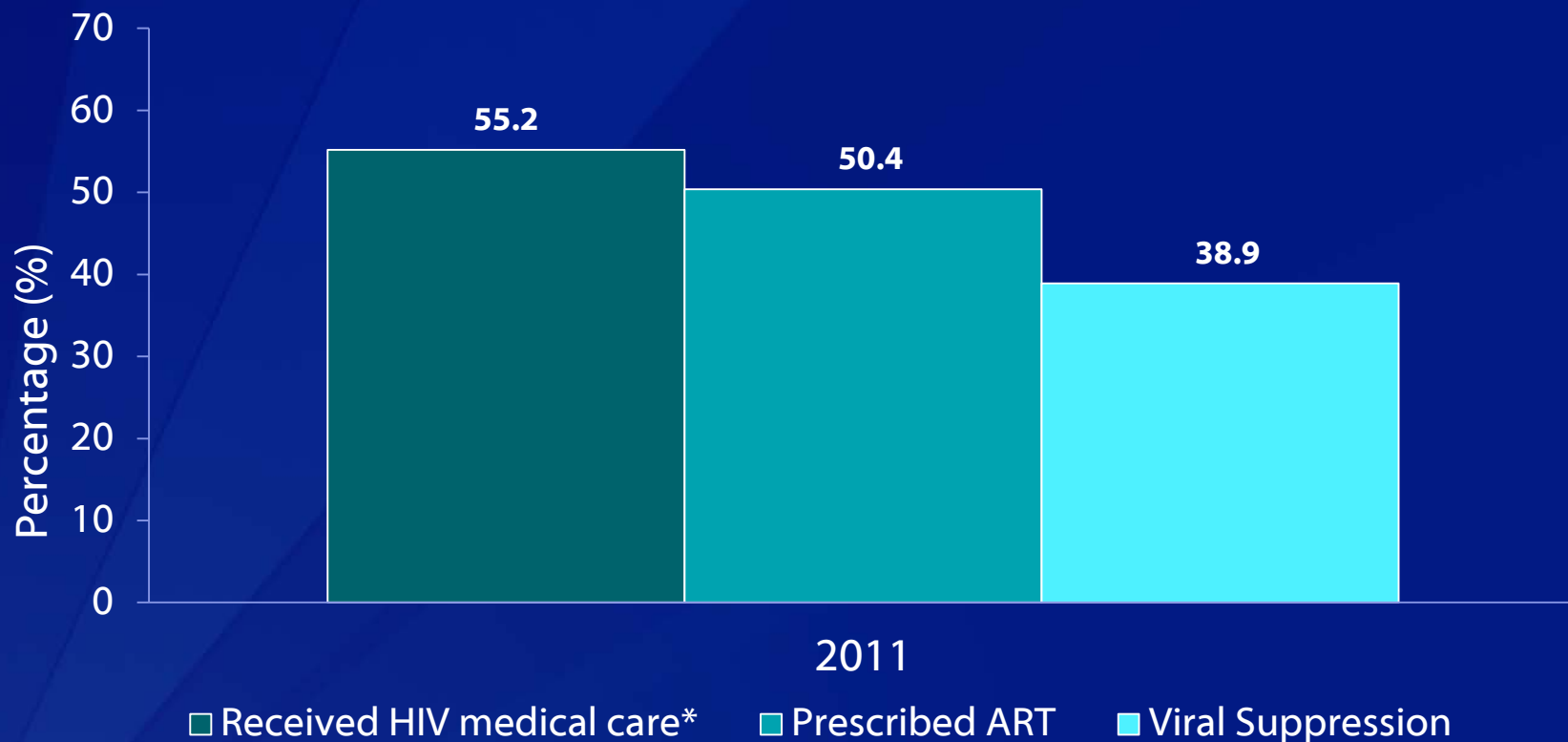


National HIV Surveillance System: Estimated number of persons aged ≥ 18 years diagnosed with HIV infection by year-end 2010 and alive at year-end 2011—United States and Puerto Rico.

Medical Monitoring Project: Estimated number of persons aged ≥ 18 years who received medical care January to April of 2011, were prescribed antiretroviral therapy, or whose most recent VL was undetectable or < 200 copies/mL—United States and Puerto Rico.

Black/African American Adults and Adolescents Living with Diagnosed HIV Infection, HIV Care Continuum Outcomes, 2011 United States and Puerto Rico

N = 353,830

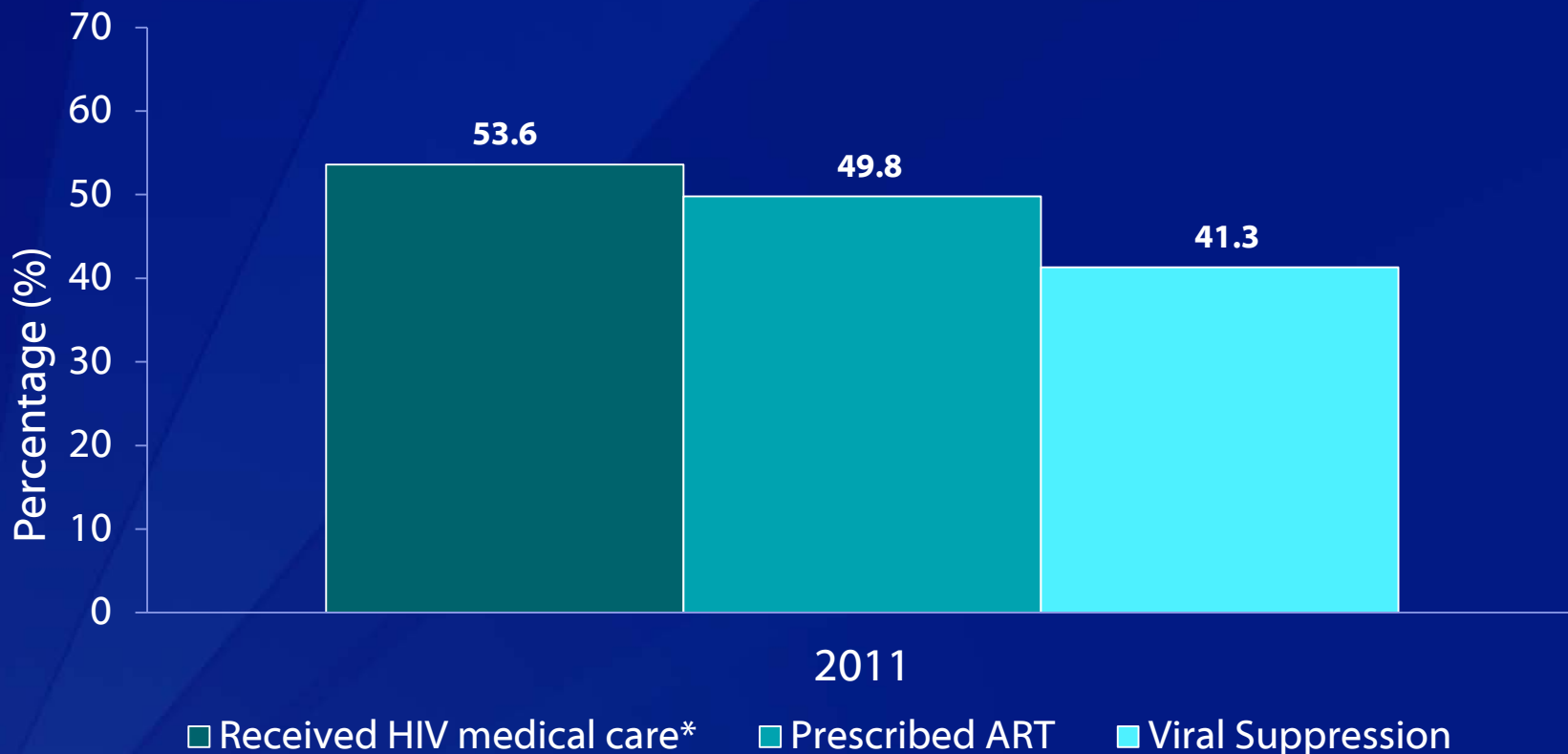


National HIV Surveillance System: Estimated number of persons aged ≥ 18 years diagnosed with HIV infection by year-end 2010 and alive at year-end 2011—United States and Puerto Rico.

Medical Monitoring Project: Estimated number of persons aged ≥ 18 years who received medical care January to April of 2011, were prescribed antiretroviral therapy, or whose most recent VL was undetectable or < 200 copies/mL—United States and Puerto Rico.

Hispanic/Latino Adults and Adolescents Living with Diagnosed HIV Infection, HIV Care Continuum Outcomes, 2011 United States and Puerto Rico

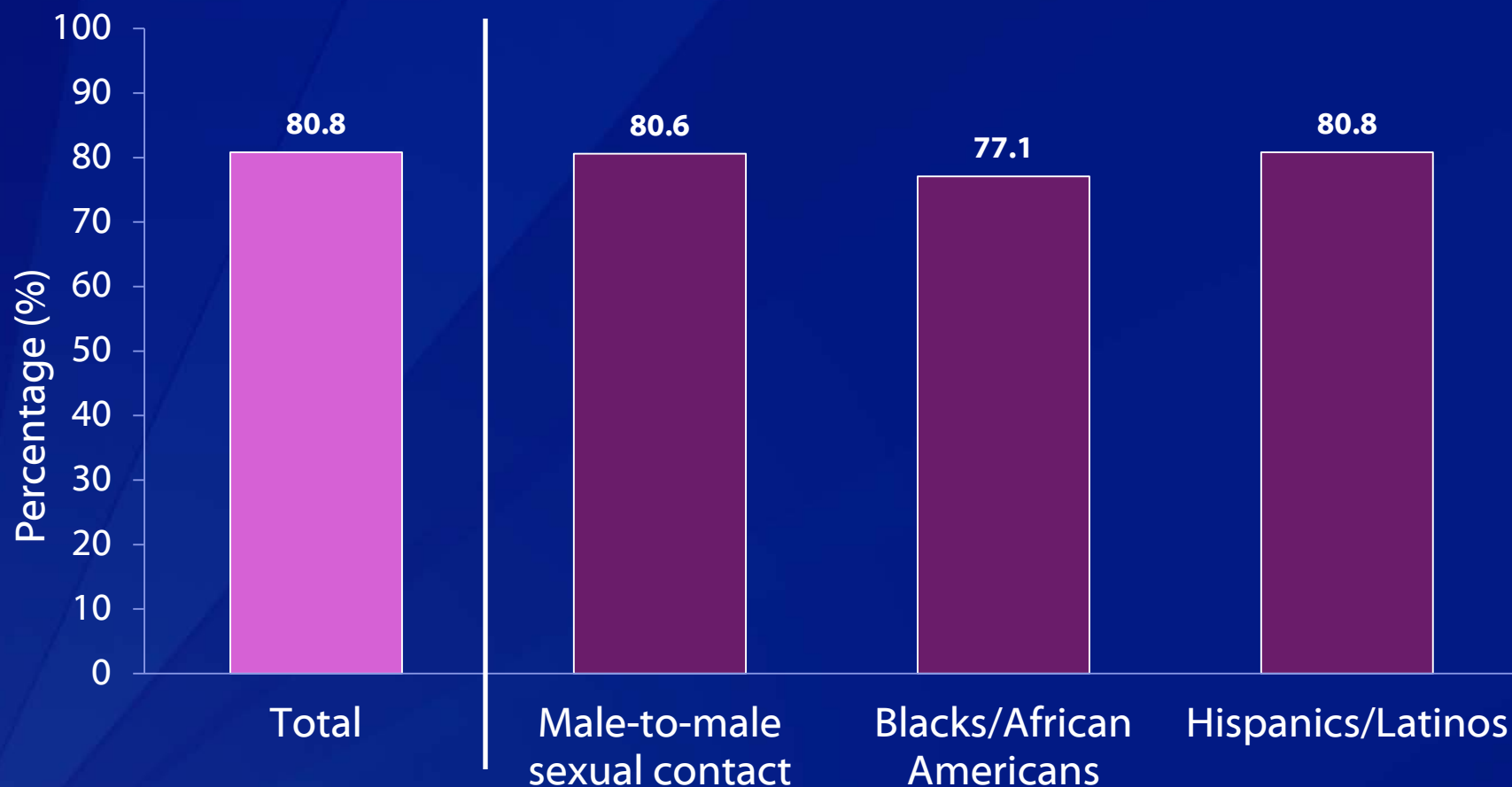
N = 181,154



National HIV Surveillance System: Estimated number of persons aged ≥ 18 years diagnosed with HIV infection by year-end 2010 and alive at year-end 2011—United States and Puerto Rico.

Medical Monitoring Project: Estimated number of persons aged ≥ 18 years who received medical care January to April of 2011, were prescribed antiretroviral therapy, or whose most recent VL was undetectable or < 200 copies/mL—United States and Puerto Rico.

Linkage to HIV Medical Care within 3 Months after HIV diagnosis during 2012, among persons aged ≥ 13 years 17 States and the District of Columbia



Note. Data include persons with a diagnosis of HIV infection regardless of stage of disease at diagnosis. Linkage to HIV medical care was defined as having CD4 or VL test ≤ 3 months after HIV diagnosis. Hispanics/Latinos can be of any race.